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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/028,336	12/22/2001	Emery W. Dilling	DLLU-1001	2801
30150	7590 03/16/2004		EXAMINER	
DENNIS W. GILSTAD			BARRETT, THOMAS C	
3522 HUNTERS SOUND SAN ANTONIO, TX 78230			ART UNIT	PAPER NUMBER
	,		3738	}
		DATE MAILED: 03/16/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
\$	<u> </u>	10/028,336	DILLING, EMERY W.	
	Office Action Summary	Examiner	Art Unit	_
		Thomas C. Barrett	3738	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address	
THE I - Exter after - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).	
Status				
1)🛛	Responsive to communication(s) filed on 15 De	ecember 2003.		
•	This action is FINAL . 2b)⊠ This	action is non-final.		
3)	Since this application is in condition for alloward closed in accordance with the practice under E	·		
Dispositi	on of Claims			
5) □ 6) ⊠ 7) ⊠ 8) □ Applicati	Claim(s) 1-34 is/are pending in the application. 4a) Of the above claim(s) 9-32 is/are withdrawn Claim(s) is/are allowed. Claim(s) 1-7,33 and 34 is/are rejected. Claim(s) 8 is/are objected to. Claim(s) are subject to restriction and/or ion Papers The specification is objected to by the Examine The drawing(s) filed on is/are: a) acceeds applicant may not request that any objection to the organization.	r from consideration. r election requirement. r. epted or b) □ objected to by the B		
11)□	Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the Ex	• • • • • • • • • • • • • • • • • • • •	, ,	
Priority ι	ınder 35 U.S.C. § 119			
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	on No ed in this National Stage	
2) 🔲 Notic 3) 🔯 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 2.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		

Art Unit: 3738

DETAILED ACTION

Election/Restrictions

A telephone call was made by Dennis Gilstad on December 1, 2003 to elect Species I: Figure 1 directed to claims 1-8, 33 and 34.

Claims 9-32 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected Species, there being no allowable generic or linking claim. Election was made without traverse in the telephone call of December 1, 2003.

Specification

The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 33-34 are rejected under 35 U.S.C. 102(b) as being anticipated by Eberhardt et al. (5,476,510). Eberhardt et al. discloses a heart valve prosthesis (10) Art Unit: 3738

comprising: a tubular body, flow control means (leaflets), discontinuous semi-rigid sewing flange (commissure posts, 38), and a sealing band (42). The commissure posts can be used for securing the valve to the patient.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 3-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lane (5,037,434) in view of Yeo (5,908,451). Lane discloses a heart valve prosthesis comprising three semi-rigid sewing flanges (24, 26, 28) spaced about 115-130 degrees apart (FIG. 1), a circumferential groove (46), a circumferential tissue adherence band within the groove (116), flow control means (84) however Lane fails to disclose a flared inlet. Yeo teaches a heart valve prosthesis having a flared inlet (15), which helps to avoid boundary layer separation (col. 3, lines 52-54). It would have been obvious to one of ordinary skill in the art to combine the teaching of a heart valve prosthesis having a flared inlet, as taught by Yeo, to the heart valve prosthesis as per Lane, in order to avoid boundary layer separation.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lane in view of Yeo as above. Lane discloses a heart valve prosthesis as claimed, however

Art Unit: 3738

Lane fails to disclose the flange portions being spaced between 4 and 12 mm from the inlet end.

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to make the flange portions being spaced between 4 and 12 mm from the inlet end. Applicant has not disclosed that this distance provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with either length of the space of Lane or the claimed length because both would serve the same function and would be based on the size of the individual patient. Therefore, it would have been obvious to one of ordinary skill in the art to modify Lane to obtain the invention as specified in claim 2.

Allowable Subject Matter

Claim 8 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas C. Barrett whose telephone number is (703) 308-8295. The examiner can normally be reached Tuesday-Friday between 9:00 A.M. and 6:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott can be reached on (703) 308-2111. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0858.

Thomas Barrett